POWERIS CK

DC Energy - Power pack

Industrial Power for
Business-Critical Continuity™

DC power packs POWERIS CK are designed for industrial applications: energy supply for automatic control systems, monitoring circuits, relaying and motorization, etc.

They consist of a rectifier ALPHA, a sealed lead acid battery (gas recombination) and a supervisor. Mains present, the rectifier provides operating output and battery charging. Mains absent, the battery provides the operating output according to a backup time function of its capacity.

Benefits

- **The POWERIS CK DC present numerous options** that allow a better response to your application.
- Powered in 230Vac -20% +15%, 50/60 Hz, **they deliver an output voltage** of 12, 24, 48, 110, 120 or 220 Vdc, +13,8% -15%.
- **An electronic battery charger** with optimizes the charge of the contained battery. A microprocessor based central unit provides a clear status by LED, defaults on 4 dry contacts. It display voltage and current measurements as well as diagnosis messages.
  Fuses protect all power circuits (input, output and battery) from any fault or wrong operation.
- **A battery test verifies that the battery is able to supply the load** and that the fuses of the battery branch are not blown.
  It is operated automatically and cyclically repeated. It is especially recommended when you want to make sure the battery can handle the load after a long idling period.

CHLORIDE

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POWERIS CK

DC Energie - Power pack

Technical Specification

Reference	Input voltage	Output voltage	Load current	battery capacity
	VAC	VDC	A	Ah
POWERIS CK 12 30 24	230	12	30	24
POWERIS CK 12 30 38	230	12	30	38
POWERIS CK 12 30 48	230	12	30	48
POWERIS CK 12 30 60	230	12	30	60
POWERIS CK 12 30 76	230	12	30	76
POWERIS CK 12 30 120	230	12	30	120
POWERIS CK 12 60 24	230	12	60	24
POWERIS CK 12 60 38	230	12	60	38
POWERIS CK 12 60 48	230	12	60	48
POWERIS CK 12 60 60	230	12	60	60
POWERIS CK 12 60 76	230	12	60	76
POWERIS CK 12 60 120	230	12	60	120
POWERIS CK 24 30 24	230	24	30	24
POWERIS CK 24 30 38	230	24	30	38
POWERIS CK 24 30 48	230	24	30	48
POWERIS CK 24 30 60	230	24	30	60
POWERIS CK 24 30 76	230	24	30	76
POWERIS CK 24 30 120	230	24	30	120
POWERIS CK 24 60 24	230	24	60	24
POWERIS CK 24 60 38	230	24	60	38
POWERIS CK 24 60 48	230	24	60	48
POWERIS CK 24 60 60	230	24	60	60
POWERIS CK 24 60 76	230	24	60	76
POWERIS CK 24 60 120	230	24	60	120
POWERIS CK 48 15 24	230	48	15	24
POWERIS CK 48 15 38	230	48	15	38
POWERIS CK 48 15 60	230	48	15	60
POWERIS CK 48 30 24	230	48	30	24
POWERIS CK 48 30 38	230	48	30	38
POWERIS CK 48 30 60	230	48	30	60
POWERIS CK 110 06 07	230	110	6	7
POWERIS CK 110 06 14	230	110	6	14
POWERIS CK 110 12 07	230	110	12	7
POWERIS CK 110 12 14	230	110	12	14
POWERIS CK 120 06 07	230	120	6	7
POWERIS CK 120 06 14	230	120	6	14
POWERIS CK 120 12 07	230	120	12	7
POWERIS CK 120 12 14	230	120	12	14
POWERIS CK 220 06 07	230	220	6	7

Reference user guide				
Range	Output voltage	Load current	Battery capacity	Coffret CK IP 21
POWERIS CK 24 30 38	24 V	30 A	38 Ah	H 850 x l 500 x P 420 mm

For longer back-up time or Nickel Cadnium batteries - Contact us

Technical Specification

Reference	Mains power present	Power in autonomous mode (W)					Acceptable peaks (A)	
	W	15'	30'	60'	120'	180'	10 s	1 s
POWERIS CK 12 30 24	375	360	280	173	102	74	60	100
POWERIS CK 12 30 38	356	360	360	272	161	116	60	100
POWERIS CK 12 30 48	343	360	360	346	204	149	60	100
POWERIS CK 12 30 60	324	360	360	360	262	188	60	100
POWERIS CK 12 30 76	305	360	360	360	322	233	60	100
POWERIS CK 12 30 120	245	360	360	360	360	360	60	100
POWERIS CK 12 60 24	780	444	280	173	102	74	120	200
POWERIS CK 12 60 38	760	705	441	272	161	116	120	200
POWERIS CK 12 60 48	750	720	559	346	204	149	120	200
POWERIS CK 12 60 60	730	720	720	433	262	188	120	200
POWERIS CK 12 60 76	710	720	720	544	322	233	120	200
POWERIS CK 12 60 120	650	720	720	720	511	377	120	200
POWERIS CK 24 30 24	751	720	559	346	204	149	60	100
POWERIS CK 24 30 38	713	720	720	545	321	233	60	100
POWERIS CK 24 30 48	685	720	720	691	408	298	60	100
POWERIS CK 24 30 60	660	720	720	720	524	377	60	100
POWERIS CK 24 30 76	609	720	720	720	643	466	60	100
POWERIS CK 24 30 120	490	720	720	720	720	720	60	100
POWERIS CK 24 60 24	1585	888	559	346	204	149	120	200
POWERIS CK 24 60 38	1545	1410	883	545	321	233	120	200
POWERIS CK 24 60 48	1520	1440	1118	691	408	298	120	200
POWERIS CK 24 60 60	1485	1440	1440	867	524	377	120	200
POWERIS CK 24 60 76	1440	1440	1440	1090	643	466	120	200
POWERIS CK 24 60 120	1320	1440	1440	1440	1022	754	120	200
POWERIS CK 48 15 24	687	720	720	691	408	298	30	50
POWERIS CK 48 15 38	610	720	720	720	643	466	30	50
POWERIS CK 48 15 60	491	720	720	720	720	720	30	50
POWERIS CK 48 30 24	1510	1440	1118	691	408	298	60	100
POWERIS CK 48 30 38	1440	1440	1440	1090	643	466	60	100
POWERIS CK 48 30 60	1320	1440	1440	1440	1046	753	60	100
POWERIS CK 110 06 07	650	660	660	454	270	194	12	20
POWERIS CK 110 06 14	564	660	660	660	540	389	12	20
POWERIS CK 110 12 07	1380	1188	734	454	270	194	24	40
POWERIS CK 110 12 14	1295	1320	1320	907	540	389	24	40
POWERIS CK 120 06 07	722	720	720	505	300	215	12	20
POWERIS CK 120 06 14	626	720	720	720	600	430	12	20
POWERIS CK 120 12 07	1535	1320	816	505	300	251	24	40
POWERIS CK 120 12 14	1440	1440	1440	1008	600	430	24	40
POWERIS CK 220 06 07	1300	1320	1320	900	540	389	12	20

Looking for the energy block best suited to your requirements with the web configurator www.aees.fr

Standards	
Compliance	LV n°2006/95/CE - NF EN 60439-1
	EMC n°2004/108/CE - NF EN 61000-6-2: NF EN 61000-6-4
	transformers complies to NF EN 61558-2-17

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Options	
Power supply 400 Vac:	400 Vac single phase power supply possible via an internal autotransformer 400/230 Vac.
Coupling diode:	You can parallel two POWERIS DC packs either to insure redundancy or to increase the output power. Select this option whenever you need a higher level of reliability or when the power you need exceeds the available choice in the table.
Distribution 4 or 6 outputs FU, CB, CB+C:	you can individually protect several units connected to the POWERIS, thank to this option that fits inside the cubicle. This option saves you an additional DC switchboard and guaranties you appropriate selectivity of protections. When a connected unit fails, protection isolates the defective unit and maintains power on others.
Mains breaker with contact:	this option provides remote alarm contact on mains breaker.
DC ground fault monitoring:	this option monitors DC output isolation with respect to ground for models 24, 48, 110 and 220 Vdc and provides a remote alarm contact.
Temperature sensor:	This option is recommended for battery charger systems installed on sites with large temperature variations. It allows compensation of the output charging voltage according to the temperature sensed by the probe. This optimizes the battery life time.
End of autonomy battery disconnect:	this option allows disconnection of the battery at the end of its discharge. If you have systems that are not monitored and you may have long mains outage, this option is mandatory. Sealed lead acid batteries may be damaged when discharged below a minimum voltage.
Battery protection:	you can protect the battery by two-pole circuit breakers with or without position contact.
Tripping restart:	this opion preserves a certain capacity of the battery to enable the re-closing of the de-energized breakers (factory programmable between 30 min and 127 hours).
Alarm reports	by MODBUS RS 485 serial interface.

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- DC Power
- Embedded Computing
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- Power Switching & Controls
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- Services

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